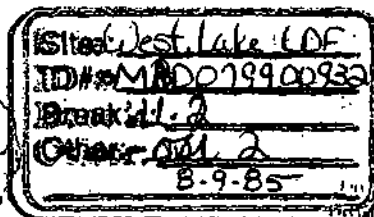


2.600 St. Louis County
West Lake Sanitary Landfill

JOHN ASHCROFT
Governor

FREDERICK A. BRUNNER
Director



cc - WMP

Division of Energy
Division of Environmental Studies
Division of Geology and Land Survey
Division of Management Science
Division of Parks and Historic Preservation

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

St. Louis Regional Office
8460 Watson Road, Suite 217
St. Louis, MO 63119
314-849-1313

August 9, 1985

RECEIVED

AUG 14 1985

WASTE MANAGEMENT
SECTION

40249195



SUPERFUND RECORDS

Mr. William J. McCullough
President
West Lake Landfill, Inc.
13570 St. Charles Rock Road
Bridgeton, MO 63044

Dear Mr. McCullough:

An inspection of the condition and operation of the West Lake Inc. Sanitary Landfill was conducted on August 1, 1985. The recommendations contained in this report are based on the findings made at the time of inspection. Please direct your attention to these findings and carry out the listed recommendations.

FINDINGS:

1. Sufficient cover was lacking on the western slope of the sanitary landfill.
2. The leachate collection/treatment system was not in operation.
3. Sufficient cover was lacking on the top section of the demolition landfill.

DISCUSSION:

During the inspection solid waste was being incorporated into the working face at the north side of the landfill. The working face was in good condition with satisfactory spreading and compaction being achieved. The current lift will be extended about 50 yards north and then one more lift is to be added to the landfill in order to achieve the proper contours. The incoming volume of waste has decreased to approximately 1000 cubic yards per day. This has added another 30 days to the life of the current permitted area.

Exposed refuse was observed over the upper section of the western slope of the sanitary landfill. Recent heavy rains have washed off some of the cover and additional final cover is needed. Final cover has already been applied to the eastern section of the sanitary landfill. Final cover will be applied to the remaining portion of the landfill upon completion of the final elevation lift.

The leachate collection/treatment system was still not in operation due to repair work being done on the number 1 polishing cell at the mechanical treatment plant. A synthetic liner has been installed in the cell and, according to the landfill operator, the system will be in operation soon. Pumping from the leachate collection well has not occurred for at least 5 months. The leachate

DNR 0071

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level in the well has not been monitored and it was unknown how much leachate had collected since the pumping was discontinued. According to the conditions of the operating permit, the leachate level in the collection well shall never rise eight (8) feet above the pit bottom. Unless the amount of leachate in the collection well is determined to be below the level specified in the operating permit, pumping must begin immediately. The leachate extracted from the well should be directed to the holding lagoon until the treatment plant is in operation. It is requested that this office be provided with a written response as to how the leachate will be managed. This response must specify: 1. level of leachate in the collection well; 2. when the pumping of leachate from the collection well will resume; 3. when the treatment plant will resume operation.

The volume of leachate discharging from the toe of the western slope into the quarry pit has decreased over the past several months. The volume of surface water in the pit has also decreased due to effective grouting of seepage areas along the quarry wall.

The demolition landfill was in satisfactory condition. However, exposed waste and ponded surface water were observed over the top section of the landfill. A minor leachate outbreak was also noted on the east slope. Proper covering and grading of intermediate and final areas must be achieved.

RECOMMENDATIONS:

1. Apply additional cover to the exposed areas of the western slope at the sanitary landfill.
2. Determine the amount of leachate in the collection well and resume pumping immediately if the level is above that specified in the operating permit.
3. Provide this office with the requested written response as to how the leachate in the collection well is to be managed.
4. Apply proper cover to the demolition landfill.

Should you have any questions concerning this inspection report, please contact the St. Louis Regional Office.

APPROVED BY:

Mike Duvall
F. Donald Maddox *for*
Regional Administrator
St. Louis Regional Office

PREPARED BY:

Joe Haake
Joe Haake
Environmental Specialist
St. Louis Regional Office

JH/FDM/dl

CC: Central Office - Waste Management Program
City of Bridgeton
St. Louis County Department Of Community Health & Medical Care

SANITARY LANDFILL SURVEILLANCE RECORD

Date: 8-1-85 Days/Week Open: 6

Name of Sanitary Landfill: WEST LAKE SANITARY LANDFILL

Permit No: 118909 County: ST. LOUIS

Owner: WEST LAKE LANDFILL, INC. Operator: VERNON FEAR

Address: RT. 1, BOX 206 Address: 13570 ST. CHARLES ROCK RD.

BRIDGETON 63042 BRIDGETON 63042

I. Special Conditions and Approved Modifications

A. Are there any special conditions or approved modifications of the satisfactory compliance subsections of the rules and regulations? (e.g. impermeable barrier, limited excavation, exceptions to daily cover requirements)
X Yes No

B. Is the sanitary landfill operation in compliance with the special conditions or approved modifications? (If "No," describe violations under "REMARKS.")
X Yes No

II. Check Types of Waste Accepted

	INDICATED ON PERMIT APPLICATION	REPORTED BY OPERATOR	AS OBSERVED
Municipal solid waste	<u>X</u>	<u>X</u>	<u>X</u>
Bulky waste	<u>X</u>	<u>X</u>	<u>X</u>
Dead animals			
Incinerator residue			
Demolition and construction waste			
Brush and untreated wood waste			
Septic tank pumpings			
Wastewater treatment plant sludges			
OTHER SLUDGES (SPECIFY)			
LIQUIDS (SPECIFY)			
INDUSTRIAL PROCESS WASTES (SPECIFY)			
HAZARDOUS WASTES (SPECIFY)			
OTHER WASTES (SPECIFY)			

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WASTE MANAGEMENT
DIVISION

III. Remaining Life of Landfill

A. Estimated amount of solid waste coming through gate.
Compacted loads 6000 yds/wk tons/wk
Noncompacted loads yds/wk tons/wk

B. Estimated volume of remaining landfill covered by approved engineering plans.
 acre feet 1 MONTH YEARS

INSPECTION FORM
DISTRIBUTION LIST

Owner X
Operator
City BRIDGETON
County Court
Consulting Engineer
Solid Waste Program CC-WMP
Regional Office File X
Others ST. LOUIS COUNTY HEALTH

IV. Satisfactory Compliance Subsections Regulations 80-3.010

Check all subsections: SAT — Satisfactory; UNS — Unsatisfactory. (If necessary describe "UNS" violations under "Remarks.")

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
SOLID WASTE ACCEPTED			
(1)(C)2	Bulky solid waste crushed on solid ground and pushed onto working face near bottom of the cell.	X	
(2)(C)3	Small dead animals covered immediately with soil or solid waste. Large dead animals placed in pit and covered with four feet compacted soil.	N/A	
(2)(C)4	Disposal of dewatered sludges on working face along with municipal solid waste.	N/A	
(2)(C)5	Incinerator and air pollution control residues prevented from becoming airborne	N/A	
(3) SOLID WASTE EXCLUDED			
(3)(C)1	No unpermitted waste accepted.	X	
(3)(C)2	Sign posted at entrance listing excluded wastes.	X	
(4) SITE SELECTION			
(4)(C)1	Site accessible in all weather conditions. Temporary roads provided for delivery to working face.	X	
(6) WATER QUALITY			
(6)(C)1	Surface water courses and runoff properly diverted from the landfill. Sanitary landfill construction and grading to promote rapid surface water runoff without excessive erosion.	X	
(6)(C)2	Leachate collection and treatment systems utilized where necessary to protect ground and surface water resources.		X
(6)(C)3	No ground or surface water in contact with solid waste.	X	
(7) AIR QUALITY			
(7)(C)	No open burning without written permission of the proper air pollution agency and the Division.	X	
(8) GAS CONTROL			
(8)(C)1	Implementing decomposition gas control plan as necessary to prevent problems	X	
VECTORS			
(9)(C)	Vector control programs implemented when necessary to prevent or rectify vector problems.	N/A	
AESTHETICS			
(10)(C)1	Litter control devices utilized near working face and elsewhere as needed. Litter collected from fences, and the ground surface and incorporated into the daily cell at the end of each day or containerized.	X	
(10)(C)2	Wastes easily moved by wind covered as necessary to prevent their becoming airborne and scattered.	X	
(10)(C)3	On-site vegetation and natural windbreaks being utilized to improve appearance and operation of the sanitary landfill	X	

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(10) AESTHETICS (Continued)			
(10)(C)4	Salvaged materials removed daily or stored in aesthetically acceptable containers or enclosures.	N/A	
(11) COVER MATERIAL			
(11)(C)1	Daily cover applied regardless of weather in not less than a six inch layer. Cover material available in all weather conditions.	X	
(11)(C)2	Intermediate cover applied to all areas idle for more than 60 days in a layer not less than one foot after compaction.	X	
(11)(C)3	Final cover applied on each area as completed in a layer not less than two feet after compaction.		X
(12) COMPACTION			
(12)(C)1	Adequate equipment on-site, operated daily.	X	
(12)(C)1A	Solid waste spread in layers not to exceed two feet and confined to smallest practical area.	X	
(12)(C)1B	Wastes compacted to smallest practical volume.	X	
(12)(C)1C	Cover material compacted as much as practical.	X	
(12)(C)2	Preventive maintenance performed.	X	
(12)(C)3	Daily task operating manual provided.	X	
(13) SAFETY			
(13)(C)1	Fire extinguishers provided on oil equipment.	X	
(13)(C)2	Provisions for extinguishing fires in waste, equipment and structures	X	
(13)(C)3	Communication equipment available.	X	
(13)(C)4	Scavenging prohibited.	X	
(13)(C)5	Controlled access to site by established roadways and limited to hours when operating personnel are on duty.	X	
(13)(C)6	Traffic controlled and directed to designated disposing points.	X	
(13)(C)7	Site dust controlled for safety purposes and to prevent nuisances	X	
(14) RECORDS			
(14)(C)1A	Records of major problems and complaints.	X	
(14)(C)1B	Monitoring record maintained. a. leachate sampling and analyses. b. gas sampling and analyses. c. ground and surface water analyses.	X	
(14)(C)1C	Records of vector control efforts.	N/A	
(14)(C)1D	Records of dust and litter control efforts	X	
(14)(C)1E	Records of quantity of waste handled	X	
(14)(C)1F	Records of description, sources, and volume of special wastes listed in Subsection (3)(A).	X	

V. Operation Proceeding in Accordance with Approved Engineering Plans? (If "NO," describe violations under "Remarks.")

X Yes No

REMARKS LEACHATE COLLECTION/TREATMENT SYSTEM STILL NOT IN
OPERATION. EXPOSED WASTE ON FINAL WESTERN SLOPE

(Attach additional sheets as necessary.)

BY

[Signature]

SIGNATURE OF INVESTIGATOR

MISSOURI DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF ENVIRONMENTAL QUALITY
 DEMOLITION LANDFILL SURVEILLANCE RECORD

Date: 8-1-85 Days/Week Open: 6
 Name of Demolition Landfill: WEST LAKE DEMOLITION LANDFILL
 Permit No: 218903 County: ST. LOUIS
 Owner: WEST LAKE LANDFILL, INC. Operator: VERNON FEHR
 Address: Rt. 1, Box 206 Address: 13570 ST. CHARLES ROCK RD.
BRIDGETON 63042 BRIDGETON 63042
 Phone No.: 314-739-1122 Phone No.: 314-739-1122

I. Special Conditions and Approved Modifications

- A. Are there any special conditions or approved modifications of the satisfactory compliance subsections of the rules and regulations? (e.g. impermeable barrier, limited excavation, exceptions to weekly cover requirements)
 Yes X No
- B. Is the demolition landfill operation in compliance with the special conditions or approved modifications? (If "No," describe violations under "REMARKS.")
 Yes No

II. Check Types of Waste Accepted

	INDICATED ON PERMIT APPLICATION	REPORTED BY OPERATOR	AS OBSERVED
Demolition and construction waste	<u>X</u>	<u>X</u>	<u>X</u>
Brush and untreated wood waste	<u>X</u>	<u>X</u>	<u>X</u>
Tires	<u>X</u>	<u>X</u>	<u>X</u>
Inert Plastics	<u>X</u>	<u>X</u>	<u>X</u>
OTHER WASTES (SPECIFY)	<div style="text-align: center;"> RECEIVED AUG 14 1985 WASTE MANAGEMENT DEPT. </div>		

III. Remaining Life of Landfill

- A. Estimated amount of solid waste coming through gate.
 loads _____ yds/wk _____ tons/wk
- B. Estimated volume of remaining landfill covered by approved engineering plans.
 _____ acre feet 1 years

INSPECTION FORM DISTRIBUTION LIST	
Owner	<u>X</u>
Operator	_____
City	<u>BRIDGETON</u>
County Court	_____
Consulting Engineer	_____
Solid Waste Program	<u>CO-WMP</u>
Regional Office File	<u>X</u>
Others	<u>ST. LOUIS COUNTY HEALTH</u>

IV. Satisfactory Compliance Subsections Regulations 80-4.010

Check all subsections: SAT – Satisfactory; UNS – Unsatisfactory. (If necessary describe "UNS" violations under "Remarks.")

SUB-SECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(2) SOLID WASTE ACCEPTED			
(2)(C)1	Routine sanitary landfill techniques of spreading and compacting solid waste shall be used as much as practicable to dispose of solid waste in a demolition landfill.	X	
(2)(C)2	A list of wastes to be accepted shall be displayed prominently at the site entrance.	X	
(3) SOLID WASTE EXCLUDED			
(3)(C)1	A responsible supervisor shall be present at the disposal area at all times when the area is open to receive waste.	X	
(3)(C)2	Excluded wastes deposited removed to an approved disposal site.	X	
(4) SITE SELECTION			
(4)(C)	Site accessible by all-weather roads.	X	
(6) WATER QUALITY			
(6)(C)1	Surface water courses and runoff satisfactorily diverted from the landfill. Demolition landfill construction and grading to promote rapid surface water runoff without excessive erosion.		X
(6)(C)2	Decomposable solid wastes deposited above predicted maximum water table.	X	
(7) AIR QUALITY			
(7)(C)	No open burning without written permission from the Air Pollution Control Program.	X	
(8) GAS CONTROL			
(8)(C)1	Decomposition gases adequately vented to prevent danger to occupants of adjacent property.	N/A	
(8)(C)2	Gases vented to prohibit explosive or toxic accumulations.	N/A	
(9) VECTORS			
(9)(C)	Vector control programs implemented, when necessary.	N/A	
(10) AESTHETICS			
(10)(C)1	Litter collected and compacted daily into the cell being utilized.	X	
(10)(C)2	Wastes easily moved by wind covered as necessary.	X	
(10)(C)3	On-site vegetation and natural windbreaks being utilized for litter control and aesthetic appearance.		X

SUB-SECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(10) AESTHETICS (continued)			
(10)(C)4	Salvaged materials removed daily or stored in aesthetically acceptable manner.	X	
(11) COVER MATERIAL			
(11)(C)1	Twelve (12) inches compacted soil cover material applied at least once every seven calendar days.		X
(11)(C)2	Final cover of at least two (2) feet compacted soil applied on all completed areas.	X	
(12) COMPACTION			
(12)(C)1A	Solid waste spread in layers not to exceed two (2) feet as much as practical.	X	
(12)(C)1B	Solid waste compacted to smallest practical volume.	X	
(12)(C)1C	Cover material compacted as much as practical.	X	
(12)(C)2	Equipment available and operated to spread and compact the solid waste as received or at least when the accumulated waste reaches 200 cubic yards.	X	
(12)(C)3	No solid waste disposed of in water where the water interfered with spreading and compacting or where the water is causing a mosquito problem.	X	
(13) SAFETY			
(13)(C)1	Fire extinguishers provided on all equipment.	X	
(13)(C)2	Provisions for extinguishing fires in waste, equipment or structures.	X	
(13)(C)3	Scavenging prohibited.	X	
(13)(C)4	Controlled access limited to operating hours.	X	
(13)(C)5	Traffic control signs provided.	X	
(13)(C)6	Dust control adequate.	X	
(14) RECORDS			
(14)(C)1A	Records of complaints and major problems.	X	
(14)(C)1B	Records of dates of cover material application.	X	
(14)(C)1C	Records of vector control efforts.	N/A	
(14)(C)1D	Records of dust and litter control efforts.	X	
(14)(C)1E	Records of quantity of waste received.	X	
(14)(C)2	Records of location of general types of wastes and depth of fill.	X	

V. Operation Proceeding in Accordance With Approved Engineer Plans? (If "No," describe violations under "REMARKS.")

 X Yes No

REMARKS EXPOSED WASTE AND FOUDED SURFACE WATER ON TOP

SECTION MINOR LEACHATE OUTFEED ON EAST SLOPE

(Attach additional sheets as necessary.)

BY

Joe Alcaraz

Signature of Investigator